Climate Review for the month September 2018

Presented by:

National Weather Service Newport/Morehead City

September 2018 Summary

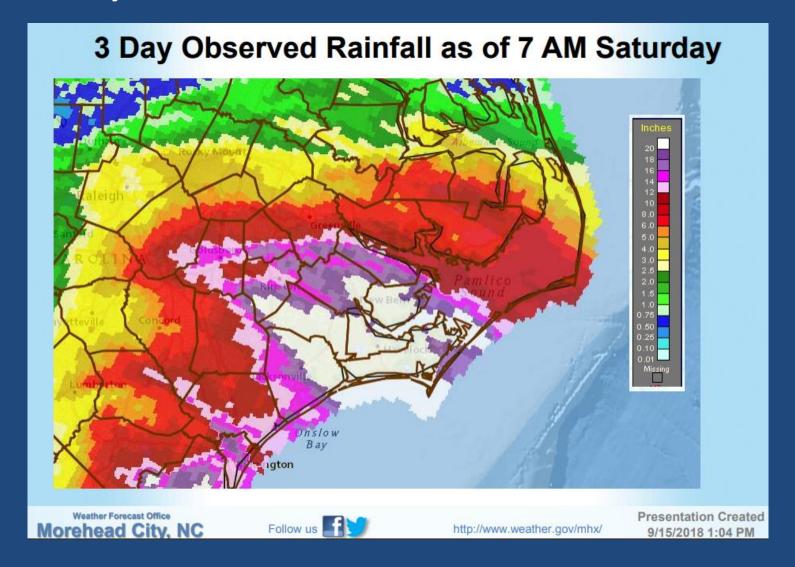
September 2018 was a historic month in eastern North Carolina. Hurricane Florence brought incredible rainfall totals in excess of 20-30 inches, producing devastating flooding. Florence also produced a storm surge of over 10 feet in New Bern, and downed many trees and power lines across the region producing widespread power outages. Damage from Florence was in the billions of dollars with more than 30 people killed in North Carolina from the storm. With the rainfall from Florence, almost all of eastern North Carolina, other than the Outer Banks, shattered all-time monthly rainfall records. Additionally, September was one of the warmest on record with temperatures up to 5 degrees above normal. For more information on Florence, go to weather.gov/mhx/Florence2018.



Damage in Morehead City following Hurricane Florence, September 14, 2018.

DISCLAIMER: The climate data provided are preliminary and have not undergone final quality control by NCDC. Therefore...this data is subject to revision.

3-Day Rainfall from Hurricane Florence



Rainfall totals from September 12-15, 2018 from Hurricane Florence. Areas in white depict over 20 inches of rainfall.

Average Temperatures within our CWA in September 2018

| | Avg Max | Avg_Max Normal | Avg_ Min | Avg_Min Normal | |
|---------------|---------|-------------------|----------|-------------------|--|
| Beaufort | 86.8 | 80.9 | 73.9 | 68.0 | |
| Cape Hatteras | 87.3 | 79.9 | 75.5 | 69.0 | |
| New Bern | 86.5 | 82.9 | 70.3 | 64.9 | |
| Greenville | 87.7 | 82.9 | 71.4 | 62.9 | |
| Kinston | 88.5 | 84.4 | 70.4 | 63.6 | |
| Williamston | 85.5 | 81.8 | 72.5 | 61.1 | |
| Plymouth | 87.0 | 82.7 | 70.0 | 62.9 | |
| Bayboro | | | | | |
| 54,5010 | 85.9 | 83.2 | 69.0 | 63.9 | |

Temperatures in September 2018 were well above seasonal normals.

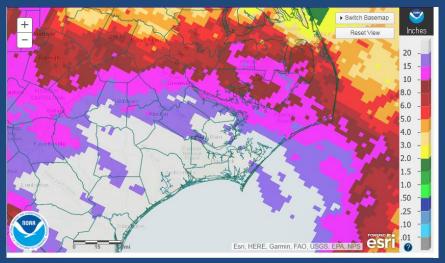
Temperature Extremes within our CWA in September 2018.

| | MAX | MIN |
|---------------|-----|-----|
| Beaufort | 89 | 66 |
| Cape Hatteras | 93 | 68 |
| New Bern | 91 | 61 |
| Greenville | 94 | 64 |
| Kinston | 93 | 64 |
| Williamston | 90 | 65 |
| Plymouth | 92 | 61 |
| Bayboro | 90 | 62 |

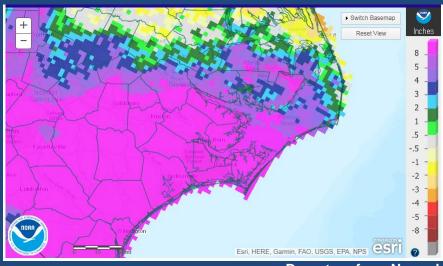
September 2018 Precipitation Vs Climate Normal

| | Precipitation (inches) | Normal | Difference | |
|---------------|------------------------|--------|------------|--|
| Cape Hatteras | 6.02 | 6.25 | -0.23 | |
| New Bern | 18.39 | 5.89 | 12.50 | |
| Greenville | 13.85 | 5.83 | 8.02 | |
| Kinston | 14.04 | 5.71 | 8.33 | |
| Williamston | 10.65 | 6.07 | 4.58 | |
| Plymouth | 8.63 | 5.39 | 3.24 | |
| Bayboro | 14.12 | 5.88 | 8.24 | |
| | | | | |

With the exception of the Outer Banks, September was extremely wet across eastern North Carolina thanks to Hurricane Florence. Most all of the area was over 8 inches above normal. Portions of the southern coastal counties received well over 20 inches of rainfall, with a few spots receiving better than 30 inches!



Observed Rainfall



Departure from Normal

Latest Drought Monitor for North Carolina





October 2, 2018

(Released Thursday, Oct. 4, 2018)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|---|--------|-------|-------|-------|-------|------|
| Current | 99.50 | 0.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| Last Week 09-25-2018 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 Month's Ago 07-03-2018 | 93.42 | 6.58 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start of Calendar Year 01-02-2018 | 15.67 | 84.33 | 35.34 | 0.00 | 0.00 | 0.00 |
| Start of Water Year 09-25-2018 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| One Year Ago 10-03-2017 | 64.07 | 35.93 | 0.00 | 0.00 | 0.00 | 0.00 |

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

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http://droughtmonitor.unl.edu/

Only a tiny area in the southern mountains has abnormally dry conditions. No drought conditions are being observed across the remainder of the state due to extreme rainfall from Hurricane Florence on September 12-15.

Monthly Drought Outlook

For October

